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TITLE:

Method for manufacturing apacitor using atomic layer

deposition

INVENTOR: LEE, JW

PATENT-ASSIGNEE: HYNIX SEMICONDUCTOR INC[HYNIN]

PRIORITY-DATA: 2000KR-0076627 (December 14, 2000)

PATENT-FAMILY:

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ABSTRACTED-PUB-NO: KR2002046433A

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BASIC-ABSTRACT:

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NOVELTY - A fabrication method of a <u>capacitor</u> is provided to improve quality and electrical properties by using an ALD(Atomic Layer Deposition) and an ammonia plasma treatment.

DETAILED DESCRIPTION - A lower electrode(21) and a sequentially formed on a semiconductor substrate(20). A TaON dielectric film(23) is then formed on the sequential. A TiN upper electrode(24) is formed on the TaON dielectric film(23) by an sequential using TiCl4 as a source gas. The surface of the TaN upper electrode(24) is performed by NH3 plasma treatment so as to remove Cl radicals.

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DRAWING:

TITLE-TERMS:

METHOD MANUFACTURE CAPACITOR ATOMIC LAYER

DEPOSIT

DERWENT-CLASS: L03 U11 U14

CPI-CODES: L03-G04A; L04-C11C2; L04-C12B; L04-C14A;

EPI-CODES: U11-C05G1B; U14-A03B4;

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